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25 August 1961

Reports Received 14 August - 25 August 1961

A. CHEMICAL & PHYSICAL

- 61,887. An Investigation of Symbol Coding for Weather Data Transmission, P.I. Hershberg, Geophysical Research Directorate, AF Cambridge Research Laboratories, Air Force Research Division, Air Force, Project 6650, December 1960. Air Force AFCRL AFSG 131. On File in NDL Only.
- 61,888. A Study of the Pulsating Growth of Cumulus Clouds, C.E. Anderson, Geophysics Research Directorate, AF Cambridge Research Laboratories, Air Force Research Division, Air Force, Project 8620, December 1960. Air Force AFCRL GRP 72. On File in NDL Only.
- 61,889. Survey of Ground Radomes, R.B. Curtis, J. Vaccaro, Rome Air Development Center, Griffiss Air Force Base, May 1961. Air Force RADC TR-61-52.
- 61,890. Structural Interrelationship of Indole Alkaloids, E. Wenkert, Iowa State University, Period: 1 November 1960 30 April 1961, 30 April 1961. Contract DA-18-108-405-Cml-269 Q.R. 9 & 10.
- 61,891. The Accelerated Corrosion of Metals, H. Leidheiser, and Others, Virginia Institute, Period: 16 March 15 June 1961, 14 July 1961. Contract DA-18-108-405-Cml-518 Q.R. 7.
- 61,392. New Principles for Toxic Agent Alarms, R.T. Morrison, S.Z. Lewin, New York University, Period: 1 October 1959 to 31 January 1961, 31 May 1961. Contract DA-18-108-405-Cml-575 Final Report.
- 61,893. The Investigation of the Biological Oxidation of Clavine Alkaloids, A.E. Schwarting, W.J. Kelleher, University of Connecticut, Period: 1 March 30 April 1961, 1 May 30 June 1961, 15 July 1961. Contract DA-18-108-405-Cm1-734 P.R. 6 & 7.
- 61,894. The Investigation of the Synthesis and Chemistry of Organic Intermediates, S. Elkin, Temple University School of Pharmacy, Contract DA-18-108-405-Cm1-780 M.R. 12.
- 61,895. Synthesis of 5-Alkylresorcinols, S.D. Koch, and Others, Monsanto Research Corporation, Period: 1 June 1960 31 May 1961, 27 June 1961. Contract DA-18-108-405-Cml-807 Annual Prog. Report No. 1.
- 61,896. Synthesis of 5-Alkylresorcinols, S.D. Koch, Monsanto Research Corporation, Period: 1 30 June 1961, 11 July 1961. Contract DA-18-108-405-Cm1-807 M.P.R. 7.

§ 1

- 61,897. Behavior of Charged Particles on Glass Slides, T.G. Owe Berg, N. Brunetz, Aerojet-General Corporation, 6 July 1961. Contract DA-18-108-405-Cm1-829 Report 0395-50(03)SP.
- 61,898. The Electrification of Dripping Drops, T.G. Owe Berg, M.J. Kinzer, Aerojet-General Corporation, 6 July 1961. Contract DA-18-108-405-Cml-829 Report 0395-50(05)SP.
- 61,899. Analytical and Physical Studies of CW Agents and Related Compounds, D.E. Kramm, and Others, W.R. Grace and Company, Contract DA-18-108-Cm1-6612, Period: July 1961, 27 July 1961. Contract DA-18-108-405-Cm1-847 P.R. 9.
- 61,900. Electrical Phenomenal Associated with Aerosols, A.W. Doyle, Arthur D. Little, Incorporated, 30 June 1961. Contract DA-18-108-405-Cml-852 Letter Report/May 1961.
- 61,901. Synthesis of Emetics and Other Compounds Related to Natural Products, I.M. Hunsberger, University of Massachusetts, 31 May 1961. Contract DA-18-108-405-Cml-912 Semi-Annual Progress Report No. 1.
- 61,902. The Selection and Use of Volatile Corrosion Inhibitors for the Preservation of Chemical Corps Equipment and Materiel, J.B. Weaver, Container Laboratories, Incorporated, 21 June 1961. Contract DA-18-108-Cml-6424 Final Report.
- 61,903. Survey of Atmospheric Stability Conditions Relative to Diffusion of Airborne Material Over Polar Areas and Glacier Surfaces, D.T. Prophet, Aerosol Laboratory, Stanford University, Stanford, California, July 1961. Contract DA-48-007-403-Cml-448 Tech. Rept. 90.
- 61,904. Dynamic Mechanical, Dilute Solution and Dielectric Properties of High Polymers, D.W. Levi, Office of Ordnance Research, Durham, North Carolina, Contract with Picatinny Arsenal, 30 November 1958 30 September 1959. Contract OOR-1-40. Prog. Rept.
- 61,905. Inorganic Chlorides and Oxychlorides as Solvents, V. Gutmann, Austria, Institut fur Anorganische und Allgemeine Chemie der Technischen Hockschule Wien, Contract No. 91-591-EUC-1559 Covering the Period of January 1st and March 31st 1961. CRDL 550 Au-10/Q.T.S.R. No. 2 Jan. 1-Mar. 31, 1961.
- 61,906. Inorganic Chlorides and Oxychlorides as Solvents, V. Gutmann, Austria, Institut fur Anorganische und Allgemeine Chemie der Technischen Hochschule Wien, Contract No. 91-591-EUC-1559, Quarterly Technical Status Report 3 Covering the Period of April 1st and June 30th 1961. CRDL 550 Au-10/Q.T.S.R. No. 3.
- 61,907. The Interpretation of Air Pollution Data with Examples from Vancouver, R.E. Munn, Canada, Meteorological Branch, Department of Transport Canada, CIR-3454, TEC-351, 9 February 1961. CRDL 550 Ca-196/CIR-3454, TEC-351.

- 61,908. Surface Wind Relationships from Frost's Power Law Theory, H.P. Wilson, Canada, Meteorological Branch, Department of Transport, Canada, CIR-3475, TEC-356, 26 April 1961. CRDL 550 Ca-196/CIR-3475, TEC-356.
- 61,909. An Atlas of Stratospheric Circulation. October 1958 March 1959, F.K. Hare, Canada, Arctic Meteorology Research Group, McGill University, Publication in Meteorology No. 37, Defence Research Borad, Department of National Defence, Canada, D Phys R(G)4, February 1961. CRDL 550 Ca-197.
- 61,910. Summary Report on the Development and Engineering Tests of a Transistorized High Voltage Power Supply for Infrared Binoculars, I. Kessler, U.S. Army Engineer Research and Development Laboratories, Fort Belvoir, Virginia, Project 8-23-02-420, 25 September 1959. Ft Belvoir ERDL Tech Rept 1597-TR.
- 61,911. The Flux and Energy Spectra of the Protons in the Inner Van Allen Belt, J.E. Naugle, D.A. Kniffen, National Aeronautics and Space Administration, August 1961. NASA TN D-412.
- 61,912. Tables of Airspeed, Altitude, and Mach Number Based on Latest International Values for Atmospheric Properties and Physical Constants, S.P. Livingston, W. Gracey, National Aeronautics and Space Administration, August 1961. NASA TN D-822.
- 61,913. A Cooled-Tube Pyrometer with Experimental Results Obtained in a High-Temperature Gas Stream, G.E. Glawe, and Others, National Aeronautics and Space Administration, August 1961. NASA TN D-870.
- 61,914. Measurements of Aerodynamic Heat Transfer and Boundary-Layer Transition on a 15° Cone in Free Flight at Supersonic Mach Numbers Up to 5.2, C.B. Rumsey, D.B. Lee, National Aeronautics and Space Administration, August 1961. NASA TN D-888.
- 61,915. Local Aerodynamic Heat Transfer and Boundary-Layer Transition on Roughened Spere-Ellipsoid Bodies at Mach Number 3.0, W.D. Deveikis, R.W. Walker, National Aeronautics and Space Administration, August 1961. NASA TN D-907.
- 61,916. Wind-Tunnel Investigation of a Balloon as a Towed Decelerator at Mach Numbers from 1.47 to 2.50, J.T. McShera, J. W. Keyes, National Aeronautics and Space Administration, August 1961. NASA TN D-919.
- 61,917. Measurements and Calculations of the Effects of Distortions in the Collector Surface on Efficiencies of Umbrella-Type Solar Collectors, V.R. Bond, National Aeronautics and Space Administration, August 1961. NASA TN D-925.
- 61,918. Supersonic Free-Flight Measurement of Heat Transfer and Transition on a 10° Cone Having a Low Temperature Ratio, C.F. Merlet, C.B. Rumsey, National Aeronautics and Space Administration, August 1961. NASA TN D-951.

- 61,919. Recombination of Hydrogen-Air Combustion Products in an Exhaust Nozzle, E.A. Lezberg, R.B. Lancashire, Appensix B: Calibration of Pyrometer with Arc Source, D.R. Buchele, National Aeronautics and Space Administration, August 1961. NASA TN D-1052.
- 61,920. Stability of Titanium Nitride and Titanium Barbide when Exposed to Hydrogen Atoms from 298° to 1950°K, W.H. Philipp, National Aeronautics and Space Administration, August 1961. NASA TN D-1053.
- 61,921. The Neutralization of Ion-Rocket Beams, H.R. Kaufman, National Aeronautics and Space Administration, August 1961. NASA TN D-1055.
- 61,922. Transiston of the Laminar Boundary Layer on a Delta Wind with 74° Sweep in Free Flight at Mach Numbers from 2.8 to 5.3, G.T Chapman, National Aeronautics and Space Administration, August 1961. NASA TN D-1066.
- 61,923. Aerodynamic Effects of Meteorites. A Specific Case, K.P. Stanyukovich, National Aeronautics and Space Administration, August 1961. NASA TT F-70.
- 61,924. The Use of High Speed Stereophotography in Explosive Metal Forming, R. Gallup, J. Pearson, U.S. Naval Ordnance Test Station, China Lake, California, NOTS TP 2698. 21 July 1961. Navy Dept NAVWEPS Rept. 7738.
- 61,925. The Omega Long-Range Navigation System, Navy Electronics Laboratory, San Diego, ASTIA Document: AD 254519, 1 March 1960. Navy Dept. NEL Rept. 958.
- 61,926. Beyond-the-Horizon Overwater Microwave Fields, N.R. Ortwein, and Others, U.S. Navy Electronics Laboratory, San Diego, California, 24 April 1961. Navy Dept NEL Rept 1011.
- 61,927. Observations of Arrival Angles of Meteor Burst Signals at 46.6 Mc/s, C.H. Freres, U.S. Navy Electronics Laboratory, San Diego, 4 April 1961. Navy Dept NEL Rept. 1036.
- 61,928. The Adsorption of Oil-Soluble Sulfonates at the Metal/Oil Interface, W.D. Bascom, C.R. Singleterry, U.S. Naval Research Laboratory, Washington, D.C., 14 July 1961. NRL Rept. 5623.
- 61,929. Destructive Testing of Locking Ring and Twist Lock Containers, W.F. Schaufelberger, Feltman Research Laboratories, Picatinny Arsenal, August 1961. P.A. Tech. Notes FRL-TN-62.
- 61,930. An Ebulliometer for Low-Molecular-Weight Polymers, O.R. Abolafia, Feltman Research Laboratories, Picatinny Arsenal, July 1961. P.A. Tech. Rept. FRL-TR-42.
- 61,931. Test of Radar Set AN/TPS-23 (XD-2), U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 25-0001, August 1960. Sig Corps USAEPG SIG 930-151.

 \mathcal{I}

- 61,932. Quantity of Communications Staff Study, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 54-57-0015, July 1960. Sig Corps USAEPG SIG 940-36 (R-1) Vol I.
- 61,933. Quantity of Communications Annex A. Quantity and Cost of Communications 1958 Type Field Army, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 54-57-0015, July 1960. Sig Corps USAEPG SIG 940-36 (R-1) Vol II Annex A.
- 61,934. Quantity of Communications Annex B. Quantity and Cost of Communications 1954 Type Field Army, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 54-57-0015, July 1960. Sig Corps USAEPG SIG 940-36 (R-1) Vol III Annex B.
- 61,935. Quantity of Communications Annex C. Quantity and Cost of Communications 1948 Type Field Army, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 54-57-0015, July 1960. Sig Corps USAEPG SIG 940-36 (R-1) Vol IV Annex C.
- 61,936. Quantity of Communications Annex D. Miscellaneous Reference Data, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 54-57-0015, July 1960. Sig Corps USAEPG SIG 940-36 (R-1) Vol V Annex D.
- 61,937. A Comparative Operational Evaluation of Radio Intercom AN/PRC-43 and AN/PRC-9, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 43-59-0018, February 1960. Sig Corps USAEPG SIG 960-47.
- 61,938. Operational Evaluation of Scatter Techniques Sixteenth Quarterly Rept. Period 5 April to 5 July 1959, U.S. Arm7 Electronic Proving Ground, Fort Huachuca, Arizona, Task 45-56-0024, July 1960. Sig Corps USAEPG SIG 960-59.
- 61,939. Comparative Operational Evaluation of Radio Set AN/MRC-80 and Radio Set AN/TRC-76, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 43-0002, June 1960. Sig Corps USAEPG SIG 960-66.
- 61,940. Evaluation of Remote Recording Microbarograph and Hygrothermograph, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 64-58-0026, June 1959. Sig Corps USAEPG SIG 970-22
- 61,941. The Non-Relativistic Doppler Shift in the Ionosphere, P.R. Arenat, U.S. Army Signal Research and Development Laboratory, Fort Monmouth, New Jersey, DA Task 3A99-20-001-07, February 1961. Sig Corps USASRDL Tech Rept 2190.
- 61,942. Polymerization Through Coordination, J.C. Bailer, and Others, University of Illinois, Wright Air Development Center, Air Research and Development Command, Wright-Patterson Air Force Base, Contract AF 33(616)3209, March 1958. W-PAF Base WADC Tech Rept 57-391 Part II.
- 61,943. The Effect of Radiation on the Physical and Mechanical Properties of Metals and Alloys, S. Wallack, Universal Winding Company, Incorporated, Wright Air Development Center, Air Research and Development Command, Wright-Patterson Air Force Base, Contract AF 33(616)3869, Project 7021 Task 70645, February 1959. W-PAF Base WADC Tech Rept 58-605.

61,944. Experimental Studies to Determine the Chemical Species Prevalent in the Plasma of an Air Arc and the Boundary Layers Adjacent to Ablating Materials, R. Carrigan, and Others Armour Research Foundation, Wright Air Development Division, Air Research and Development Command, Wright-Patterson Air Force Base, Contract AF33(616)6686 Project 7364, October 1960. W-PAF Base WADD Tech Rept 60-359.

B. MEDICAL

- 61,945. The Enzymatic Dephosphorylation and Oxidation of Psilocybin and Psilocin by Mammalian Tissue Homogentates, A. Horita, L.J. Weber, University of Washington, Period: 1 April 30 November 1960, 14 November 1960. Contract DA-18-108-Cm1-6364 Semi-Amnual Report 10, Pt. 2.
- 61,946. The Influence of pH on Serotonin Metabolism by Rat Tissue Homogenates, A. Horita, University of Washington, Period: 1 December 1960 30 May 1961, 1 June 1961. Contract DA-18-108-Cml-6364 Semi-Annual Report No. 11, Part 2.
- 61,947. Basic Studies in Percutaneous Absorption, L.J. Vinson, and Others, Lever Brothers Company, Period: January-June 1961, June 1961. Contract DA-18-108-Cm1-6573 Semi-Annual Report January-June 1961.
- 61,948. The Action of Drugs on Function and Phosphorylase Activity of the Perfused Rat Heart, N. Haugaard, University of Pennsylvania, Period: 1 January-30 June 1961, 10 July 1961. Contract DA-18-108-405-Cml-630 Semi-Annual Report 1 Jan. '61-30 June'61.
- 61,949. Study of Spreading of Solutions on Cutaneous Surfaces and Penetration Into Skin, I.H. Blank, E. Gould, Massachusetts General Hospital, 12 June 1961. Contract DA-18-108-405-Cml-672 Comprehensive Report. On File in Building 355 Only.
- 61,950. Basic Psychological Studies of the Effects of Incapacitating Agents, R.W. Russell, Indiana University Foundation, 15 March 1961. Contract DA-18-108-405-Cml-738 Report No. 2.
- 61,951. Observations on the Present State of Plague and Plague Control in the Soviet Union (According to Data Available to 31 October 1960), R. Pollitzer, The Institute of Contemporary Russian Studies, Fordham University, A pril 1961. Contract DA-18-108-405-Cm1-867 Report III.
- 61,952. Defence Research Board Defence Medical Research Advosory Committee. Minutes of the 11th Meeting Held 24 February 1961, W.G. Stewart, E.A. Bloore, Canada, DRBS 170-80/D5 (Med.)24 February 1961. CRDL 550 Ca-62/11. On File in Building 355 Only.

- 61,953. Pharmacology and Toxicology of Organophosphorus Compounds, S.N. Golikov, V.I. Rozengart, Distributed by Office of Technical Services, U.S. Department of Commerce, Washington 25, D.C., U.S. Joint Publications Research Service, JPRS: 7835, 14 April 1961. Dept. Commerce OTS: 6,121,530 JPRS: 7835.
- 61,954. The Origins of Heat Lost from Extremities in Ice Water, C.J. Eagan, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, April 1961. Ft Wainwright AAL TN 60-13. On File in Building 355 Only.
- 61,955. Metabolism of Fatty Acids Related Substances in Animals Exposed to Cold, D. Rapport, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, April 1961. Ft Wainwright AAL TN 60-24. On File in Building 355 Only.
- 61,956. Thermal and Metabolic Responses of Arctic Indians to a Standard Moderate Cold Exposure at the End of the Winter, R.W. Elsner, and Others, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, April 1961. Ft Wainwright AAL TR 60-4. On File in Building 355 Only.
- 61,957. Maintenance of Carbohydrate Stores During Stress of Cold and Fatigue in Rats Prefed Diets Containing Added Glycine, W.R. Todd, Department of Biochemistry, University of Oregon Medical School, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, March 1961. Ft Wainwright AAL TR 60-13. On File in Building 355 Only.
- 61,958. Effect of Lipotropic Factors on Cold Physiology, C.R. Treadwell, Department of Biochemistry, George Washington University, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, April 1961 Ft Wainwright AAL TR 60-18. On File in Building 355 Only
- 61,959. The Effect of Glycine Administration on Human Response to an Acute Standardized Cold Stress, T. Adams, and Others, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, April 1961. Ft Wainwright AAL TR 60-19. On File in Building 355 Only.
- 61,960. Fatty Acid Oxidation by Mitochondria from Cold Fasted Rats, E.J. Masoro, E. Porter, Department of Physiology, Tufts University School of Medicine, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, April 1961. Ft Wainwright AAL TR 60-23. On File in Building 355 Only.
- 61,961. A Mechanistic Study of the Failure in Lipogenesis Induced by Cold Stress, E.J. Masoro, Department of Physiology, Tufts University School of Medicine, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, April 1961. Ft Wainwright AAL TR 60-22. On File in Building 355 Only.
- 61,962. Circulatory Changes in the 13 Lined Ground Squirrel During the Hibernating Cycle, C.P. Lyman, R.C. O'Brien, Harvard University, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, April 1961. Ft Wainwright AAL TR 60-24. On File in Building 355 Only.

1

- 61,963. Arctic Survival Rations. VIII. Further Experiments on Persistence of Adaptation to Caloric Restriction, D.A. Vaughan, and Others, Alaskan Air Command, Arctic Aeromedical Laboratory, Fort Wainwright, Alaska, May 1961. Ft Wainwright AAL TR 60-30. On File in Building 355 Only.
- 61,964. The Growth of Human Tumors in the Hibernating Hamster, W.B. Patterson, and Others, Harvard Medical School, Pter Bent Brigham Hospital, Alaskan Air Command, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska, October 1959. Ladd AF Base AAL Tech Rept 57-18. On File in Building 355 Only.
- 61,965. Role of the Sympathetic Nervous System in the Control of Chemical Regulation of Heat Production, A.C.L. Hsieh, and Others, University of Washington School of Medicine, Alaska Air Command, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska. November 1959. Ladd AF Base AAL Tech Rept 57-30. On File in Building 355 Only.
- 61,966. Seasonal and Racial Variations in Human Blood Adenine Nucleotide Levels, J.P. Hannon, Alaskan Air Command, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska, October 1959. Ladd AF Base AAL Tech Rept 57-57. On File in Building 355 Only.
- 61,967. Thiamine Load Test Studies in Humans, D.A. Vaughan, L.N. Vaughan, Alaskan Air Command, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska, October 1959. LADD AF Base AAL Tech Rept 57-58. On File in Building 355 Only.
- 61,968. The Respiration of Rat Liver Homogenates Following Prolonged Cold Exposure, J.P. Hannon, Alaskan Air Command, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska, September 1959. Ladd AF Base AAL Tech Rept 57-59. On File in Building 355 Only.
- 61,969. Blood Chemistry of the Cold Acclimatized Rat. I. Plasma Electrolytes, J.P. Hannon, and Others, Alaskan Air Command, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska, November 1959. Ladd AF Base AAL Tech Rept 57-60. On File in Building 355 Only.
- 61,970. Arctic Survival Rations. VII. Alterations in Serum Electrolytes During Winter Field Tests of Survival Rations, J.P. Hannon, and Others, Alaskan Air Command, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska, September 1959. Ladd AF Base AAL Tech Rept 58-25. On File in Building 355 Only.
- 61,971. Gross Liver Composition of the Rat Following One Month Cold Exposure, J.P. Hannon, L.N. Vaughan, Alaskan Air Command, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska, September 1959. Ladd AF Base AAL Tech Rept 58-26. On File in Building 355 Only.

- 61,972. Arctic Survival Rations. IV. Associated Effects of Diet, Environmental Temperature, and Duration of Exposure on the Major Constituents of the Livers of Rats, D.A. Vaughan, and Others, Alaskan Air Command, Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska, September 1959. Ladd AF Base AAL Tech Rept 59-5. On File in Building 355 Only.
- 61,973. A Factor Analysis of Acuity and Phoria Measurements Obtained with Commercial Screening Devices and by Standard Clinical Methods, E.B. Cook, Medical Research Laboratory, U.S. Naval Submarine Base, New London, 15 August 1948. Navy Dept. Naval Sub. Base MRL Project NM-003-011(x-493) P.R. 4.
- 61,974. Generalized Shwartzman-Like Reaction Following Serratia Marcescens Septicemia in a Fatal Burn, C.D. Graber, and Others, U.S. Army Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas, Project 6x59-06-001, Subtask 4.1, August 1959. U.S. Army Surgical Res. Unit B.A.M.C. MEDEW-RS-1-59 Res Rept. On File in Building 355 Only.
- 61,975. Burn Stress Pseudodiabetes, G.H. Arney, and Others, U.S. Army Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas, Project 6x59-06-001, Subtast 2.9, September 1959. U.S. Army Surgical Res. Unit B.A.M.C. MEDEW-RS-2-59 Rec Rept. On File in Building 355 Only.
- 61,976. Metabolism of Burned Patients. I. An Estimation of the Nitrogen Requirements for Equilibrium, H.S. Soroff, and Others, U.S. Army Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas, Project 6x59-06-001, Task .02, May 1960. U.S. Army Surgical Res. Unit B.A.M.C. MEDEW-RS-2-60 Res. Rept. On File in Building 355 Only.
- 61,977. Metabolism of Burned Patients. II. An Estimation of Potassium Requirements for Equilibrium, E. Pearson, and Others, U.S. Army Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas, Project 6x59-06-001, Task .02, August 1960. U.S. Army Surgical Res. Unit B.A.M.C. MEDEW-RS-4-60 Res. Rept. On File in Building 355 Only.
- 61,978. Metabolism of Burned Patients. III. An Analysis of Alterations in Body Composition, H.S. Soroff, and Others, U.S. Army Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas, Project 6x59-06-001, Task .02, October 1960. U.S. Army Surgical Res. Unit B.A.M.C. MEDEW-RS-5-60 Res. Rept. On File in Building 355 Only.
- 61,979. Septicemia in Burn Injury, W.T. Tumbusch, and Others, U.S. Army Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas, Project 6x59-06-001, Task 01, October 1960. U.S. Army Surgical Res. Unit B.A.M.C. MEDEW-RS-6-60 Res. Rept. On File in Building 355 Only.
- 61,980. Measurement of the Mouse Protective Effect of Antibody for Pseudomonas Aeruginosa in Burned and Unburned Patients' Sera, C.D. Graber, and Others, U.S. Army Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas, Project 6x59-06-001, Task 03, October 1960. U.S. Army Surgical Res. Unit B.A.M.C. MEDEW-RS-7-60 Res. Rept. On File in Building 355 Only.

- 61,990. Modified Exposure: A Newer Technique in the Management of the Burned Patient, D.L. Larson, and Others, U.S. Army Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas, Project 6x59-06-001, Task 04, October 1960. U.S. Army Surgical Res. Unit B.A.M.C. MEDEW-RS-8-60 Res. Rept. On File in Building 355 Only.
- 61,991. Some Theoretic Aspects of the Use of Inert Gases in Sealed Cabin Environments, E. Roth, Space Medicine Division, School of Aviation Medicine, USAF Aerospace Medical Center (ATC), Brooks Air Force Base, Texas, November 1959. USAF School of Av Med Rept 58-152. On File in Building 355 Only.
- 61,992. The Content of Adenine Nucleotides and Creatine Phosphate in Brain. I. Normal and Anaesthetized Rats. II. Effect of Chlorpromazine, N. Weiner, Department of Pharmacology, Harvard Medical School, School of Aerospace Medicine, USAF Aerospace Medical Center (ATC), Brooks Air Force Base, Texas, May 1961. USAF Sch of Av Med Rept 61-38 & 61-39. On File in Building 355 Only.
- 61,993. Systems Operator Proficiency Effect of Speed Stress on Overload Performance, B.O. Hartman, R.E. McKinzie, Neuropsychiatry Branch, School of Aerospace Medicine. USAF Aerospace Medical Center (ATC), Brooks Air Force Base, Texas, June 1961. USAF Sch of Av Med Rept 61-40. On File in Building 355 Only.
- 61,994. Comparison of Clycogenesis and Glyconeogenesis in Altitude Exposed and Normal Mice, A.E. Hudock, L.J. Berry, Bryn Mawr College, School of Aerospace Medicine, USAF Aerospace Medical Center (ATC), Brooks Air Force Base, Texas, June 1961. USAF Sch of Av Med Rept 61-44. On File in Building 355 Only.
- 61,995. Evaluation of the Postmortem Test for Hypoxia in the Human, D.D. Van Fossan, and Others, University of Texas Medical Branch, School of Aerospace Medicine, USAF Aerospace Medical Center (ATC), Brooks Air Force Base, Texas, May 1961. USAF Sch of Av Med Rept 61-55. On File in Building 355 Only.
- 61,996. Aberrant Adrenal Cortical Tissue Near the Testis in Human Infants, E.V. Dahl, Pathology Branch, School of Aerospace Medicine, USAF Aerospace Medical Center (ATC), Brooks Air Force Base, Texas, March 1961. USAF Sch of Av Med Rept 61-61. On File in Building 355 Only.
- 61,997. The Effect of Varying Protein Concentration on the Interaction of Proteins and Bis (2-Guanidoethyl) Disulfide, B. Shapiro, Department of Radiology, Albert Einstein Medical Center, School of Aerospace Medicine, USAF Aerospace Medical Center (ATC), Brooks Air Force Base, Texas, July 1961. USAF Sch of Av Med Rept 61-65. On File in Building 355 Only.
- 61,998. Development of Photoreactive Materials for Eye Protective Devices, R.E. Fox, National Cash Register Company, School of Acrospace Medicine, USAF Acrospace Medical Center (ATC), Brooks Air Force Base, Texas, April 1961. USAF Sch of Av Med Rept 61-67. On File in Building 355 Only.

j '

- 61,999. Effect of Small Doses of Quinine on the Temporary Threshold Shift of Hearing Induced by High Energy Noise Exposure, G.J. Womack, School of Aerospace Medicine, USAF Aerospace Medical Center (ATC), Brooks Air Force Base, Texas, May 1961. USAF Sch of Av Med Rept 61-70. On File in Building 355 Only.
- 62,000. Isotope Studies on Bone Salts, M.J. Dallemagne, University of Liege, Belgium, School of Aviation Medicine, USAF Aerospace Medical Center (ATC), Brooks Air Force Base, Texas, June 1960. USAF School of Av. Med. Review 1-60, On File in Building 355 Only.
- 62,001. A Note on the RBE of Proton Radiation in Space, H.J. Schaefer, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 10 June 1961. U.S. Naval Sch of Av Med Proj MR005.13-1002 Subtask 1 Rept 18. On File in Building 355 Only.
- 62,002. The Effects of Inhalation of 100 Per Cent Oxygen on Performance of a Task Involving Visual Auditory Conflict, J.D. Harris, and Others, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 5 October 1960. U.S. Naval Sch of Av Med Proj MR005.13-1002 Subtask 11 Rept 3. On File in Building 355 Only.
- 62,003. Feasibility Studies for Hearing Conservation Program Aboard CVA Type Aircraft Carriers, H.W. Ades, and Others, U.S. Naval School of Aviation Medicine, U.S. Naval Air Station, Pensacola, Florida, 26 August 1960. U.S. Naval Sch of Av Med Res Proj MR005.13-2005 Subtask 1 Rept 8. On File in Building 355 Only.
- 62,004. Effects of Varying Mode of Signal Presentation on Hearing Thresholds Obtained with Békésy Type Audiometer, C.J. Harbold, W.F. O'Connor, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, U.S. Naval Sch of Av Med Proj MR005.13-2005 Subtask 1 Rept 9. On File in Building 355 Only.
- 62,005. Erythropoietic Stimulating Factor Production in Pubescent Mice After a Single Exposure to Hypoxia, J.K. Colehour, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 20 September 1960. U.S. Naval Sch of Av Med Res Proj MR005.06-0060 Subtask 1 Rept 1. On File in Building 355 Only.
- 62,006. Electroencephalographic Findings in Relation to Episodes of Altered Consciousness in Aviators, H.W. Ades, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 14 February 1961. U.S. Naval Sch of Av Med Proj MR005.13-3001 Subtask 1 Rept 3. On File in Building 355 Only.
- 62,007. Aerometeorism: A Follow-Up Report, C.F. Kasparek, A. Graybiel, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 16 January 1961. U.S. Naval Sch of Av Med Proj MR005.13-3001 Subtask 5 Rept 2. On File in Building 355 Only.

- 62,008. Comprehensive Bibliography of Research Reports Issued Over a Nineteen Year Period by the U.S. Naval School of Aviation Medicine, G.A. Daniel, C.F. Kasparek, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 1 May 1961. U.S. Naval Sch of Av Med Proj MR005.13-3001 Subtask 5 Rept 3. On File in Building 355 Only.
- 62,009. Hypocapnia and Erythropoiesis, R.G. Bartlett, N.E. Phillips, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 7 October 1960. U.S. Naval Sch of Av Med Res Proj MR 005.13-3100 Subtask 4 Rept 2. On File in Building 355 Only.
- 62,010. Oxygen Contaminants: Cylinder Odors, R.G. Bartlett, and Others, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 23 January 1961. U.S. Naval Sch of Av Med Proj MR005.13-3100 Subtask 7 Rept 3. On File in Building 355 Only.
- 62,011. The Velocity Volume Loop, R.G. Bartlett, N.E. Phillips, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 3 January 1961. U.S. Naval Sch of Av Med Proj MR005.13-3100 Subtask 8 Rept 1. On File in Building 355 Only.
- 62,012. Maximum Breathing Capacity Prediction from the Velocity-Volume Loop, R.G. Bartlett, and Others, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 3 January 1961. U.S. Naval Sch of Av Med Proj MR005.13-3100 Subtask 8 Rept 2. On File in Building 355 Only.
- 62,013. Pulmonary Function Evaluation in Air and Space Flight, R.G. Bartlett, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 23 February 1961. U.S. Naval Sch of Av Med Proj MR005.13-3100 Subtask 8 Rept 3. On File in Building 355 Only.
- 62,014. Evaluation of Two Forced Choice Formats, L.K. Waters, R.J. Wherry, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 15 February 1961. U.S. Naval Sch of Av Med Proj MR005.13-5001 Subtask 2 Rept 10. On File in Building 355 Only.
- 62,015. The Law of Criticality, M.B. Jones, P.D. Nelson, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 20 December 1960. U.S. Naval Sch of Av Med Proj MR005.13-5001 Subtask 4 Rept 7. On File in Building 355 Only.
- 62,016. Observations of Canal Sickness and Adaptation in Chimpanzees in a "Slow Rotation Room", A. Graybiel, and Others, U.S. Naval School of Aviation Medicine, U.S. Naval Aviation Medical Center, Pensacola, Florida, 31 October 1960. U.S. Naval Sch of Av Med Res Proj MR005.13-6001 Subtask 1 Rept 55. On File in Building 355 Only.

62,017. The Effect of Transient Weightlessness on Visual Acuity, L.D. Pigg, W.N. Kama, Behavioral Sciences Laboratory, Aerospace Medical Laboratory, Wright Air Development Division, Air Research and Development Command, Wright-Patterson Air Force Base, Project 7184, Task 71586, March 1961. W-PAF Base WADD Tech Rept 61-184.

C. MUNITIONS

- 62,018. Investigation of the Aerodynamics of Basic Multistage Missile Shapes at Mach Numbers 1.5 to 5.0, W.G. Glover, Arnold Engineering Development Center, Arnold Air Force Station, Tennessee, July 1961. Air Force AEDC Rept. TR 61-3.
- 62,019. Comparison of Dechlorane and Hexachloroethane in Smoke Screen Compositions, W.W. Reaves, K.G. Carlon, Weapons Research Division, Directorate of Research, Chemical Research and Development Laboratories, Army Chemical Center, Maryland, Task 4C 30-07-007-03, August 1961. CRDL SP1-27.
- 62,020. Theoretical Performance of Hydrogen Oxygen Rocket Thrust Chambers, G.K. Sievers, and Others, National Aeronautics and Space Administration, Washington, D.C., 1961. NASA TR R-111.
- 62,021. Test and Evaluation of the E-33 Spray Tank as a Disseminator of Smoke from High-Speed Aircraft, D.F. Johanson, U.S. Naval Ordnance Test Station, China Lake, California, 4 August 1961. Navy Dept. NOTS TP 2733.
- 62,022. Ordnance Engineering Design Handbook. Elements of Armament Engineering. Part I Sources of Energy, Ordnance Corps, August 1960. Ord Corps Ord. Pamphlet 20-106.
- 62,023. Ordnance Engineering Design Handbook. Elements of Armament Engineering. Part 2 Ballistics, Ordnance Corps, August 1960. Ord. Corps Ordnance Pamphlet 20-107.
- 62,024. Ordnance Engineering Design Handbook. Explosives Series. Properties of Explosives of Military Interest. Section I, Ordnance Corps, May 1960. Ord. Corps Ord. Pamphlet 20-177.
- 62,025. Ordnance Engineering Design Handbook. Ballistic Missile Series. Structures, Ordnance Corps, July 1960. Ordnance Corps Ord. Pamphlet 20-286.
- 62,026. Systems Analysis of Clover Cartridge, D.J. Edelman, S.M. Kaye, Feltman Research Laboratories, Picatinny Arsenal, DA Project 504-01-027, Ord Project TS5-5407, July 1961. PA Tech Note FRL TN 28.
- 62,027. Burning Characteristics of High Altitude Tracer Systems, A. Taschler, B. Jackson, S.M. Kaye, Feltman Research Laboratories, Picatinny Arsenal, May 1961. P.A. Tech. Notes FRL-TN-49.

1'

- 62,028. Suffield Experimental Station Shock Tube Instrumentation. VII. Construction of a Shock Wave Valve, D.W. Lecuyer, and Others, Canada, DRB Project D89-16-01-09, 15 May 1961. Suffield Technical Note 58.
- 62,029. Functioning Times of No. 8 Commercial Electric Detonators, J. Holdsworth, F.T. Powell, Canada, DRB Project No. D89-16-02-01, 29 June 1961. Suffield Technical Paper 216.

D. GENERAL

- 62,030. Defence Research Board Newsletter Volume 6, No. 2, Canada, February 1961. CRDL 550 Ca-174/Vol. 6, No. 2.
- 62,031. Defence Research Board Newsletter Volume 6, No. 3, March 1961. CRDL 550 Ca-174/Vol. 6, No. 3.
- 62,032. Defence Research Board Newsletter Volume 6, Nos. 4 & 5, May 1961. CRDL 550 Ca-174/Vol. 6, Nos. 4&5.
- 62,033. Defence Research Board Newsletter Volume 6, No. 6, June 1961. CRDL 550 Ca-174/Vol. 6, No. 6.
- 62,034. Army Operational Research: Its Aims and Methodology, H.H. Watson, Canada, Canadian Army Operational Research Establishment Informal Publication No. 5, April 1961. CRDL 550 Ca-195/5.
- 62,035. Frequency of Heavy Rainfalls in the Lower Fraser Valley, J.P. Bruce, Canada, Meteorological Branch, Department of Transport, Canada, CIR-3468, TEC-354, 22 March 1961. CRDL 550 Ca-196/CIR-3468, TEC-354.
- 62,036. European Scientific Notes No. 15-7, I. Estermann, Great Britain, Distributed by the Office of Naval Research Branch Office, London, 15 July 1961. CRDL 550 E-6502/15-7.
- 62,037. Evaluation of Rigid Plastic Carrying Cases for Chemical Corps Packaging and Packing. Part I. Program Plan, G.E. Murph, Experimental Engineering Division, Directorate of Technical Services, Chemical Research and Development Laboratories, Army Chemical Center, Maryland, June 1561. CRDL Tech. Memo. 42-18.
- 62,038. Bibliography of Reports as of 30 June 1961, George Washington University, Human Resources Research Office, July 1961. HumRRO Bibliography as of 30 June 1961.
- 62,039. Plan for Automatic Data Processing Systems Development 1959-1964, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, December 1959. Sig Corps USAEPG SIG 902-18.
- 62,040. Automatic Data Processing Test Facility, Ramo-Wooldridge, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Contract DA 26-039-SC-80078, December 1959. Sig Gorps USAEPG SIG 902-16.

- 62,041. Description of Programs Comprising the IBM 704-709 Computer Model of Field Telephone Systems, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 53-56-0025, January 1959. Sig Corps USAEPG SIG 940-48.
- 62,042. Signal Corps Operational Meteorological Support to U.S. Army Research & Development Activities During Fiscal Year 1959, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Project 66-00-0000, November 1959. Sig Corps USAEPG SIG 970-26.
- 62,043. Signal Corps Meteorological Support to Army R&D Activities in Greenland -- 1959, U.S. Army Electronic Proving Ground, Fort Huachuca, Arizona, Task 66-0009, March 1960. Sig Corps USAEPG SIG 970-27.

E. BIOLOGICAL WARFARE

- 62,044. Supplement to Final Report, Phase I, BW/Rapid Warming System, Model DA-88, H.H. Aldinger, Missiles, and Space Systems Engineering, Douglas Aircraft Company, Santa Monica, California, Contract with Fort Detrick, 30 April 1961. Contract DA-18-064-Cml-2746 Final Report. Phase I Supplement.
- 62,045. Third Quarterly Report on Contract with Fort Detrick, R.W. Lewis, Department of Natural Science, Michigan State University, 17 May 1961. Contract DA-18-064-404-Cm1-510 U.R. 3.

F. PROTECTIVE

- 62,046. Accelerated Deterioration of Textiles, C.A. Rader, A.M. Schwartz, Harris Research Laboratories, Incorporated, Period: 1 April 31 May 1961, 15 June 1961. Contract DA-18-108-Cml-6606 P.R. I.
- 62,047. Development of an Improved Diffusion Board Material, L.E. Leporte, T.A. Howells, Institute of Paper Chemistry, Period: 29 April 28 May 1961, 27 June 1961. Contract DA-18-108-405-Cml-941 M.P.R. 8.

G. PLANTS

- 62,048. HTM Reactor Catalyst Study, J.K. Bartel, W.R. Muther, Process Development Division, Directorate of Development, Chemical Research and Development Laboratories, Army Chemical Center, Maryland, Covers Period February 12 April 21, 1961, 26 July 1961. CRDL Tech. Memo. 31-110.
- 62,049. Report on Modified Methyldichlorophosphine Experimental Oxidation Facility, J.W. Mannion, Process Development Division, Directorate of Development, Chemical Research and Development Laboratories, Army Chemical Center, Maryland, 24 July 1961. CRDL Tech. Memo 31-112.

H. GUIDED MISSILES

- 62,050. Sergeant Chemical Warhead Fabrication and Test with Corporal Missile, C.F. Bilinski, Cook Electric Company, Period: 1 May 30 June 1961, 5 July 1961. Contract DA-18-108-Cm1-6422 Ltr. Rept. 3, Mod. 12.
- 62,051. Honest John Information Letter Number....27, U.S. Army Artillery and Missile School, Office of the Commandment, Fort Sill, Oklahoma, 21 July 1961. CRDL 285-325/HJ/Info. Ltr. 27.
- 62,052. Experimental Investigation of Heat Flux at the Upper Limit of Nucleate Boiling for Two Mixtures of Hydrazine and Unsymmetrical Dimethylhydrazine, A.B. Witte, California Institute of Technology, Jet Propulsion Laboratory, Contract NASw-6, 6 April 1961. CRDL 285-13/TR-32-78.
- 62,053. Project Squid Semi-Annual Progress Report for the Period 1 October 1960 to 30 March 1961, Princeton University, Project Squid, Contract Nonr 1858(25) Contract NR-098-038, 1 April 1961. CRDL 285-46/SAPR/Apr.1, '61.
- 62,054. Supplement C Bibliography of Unclassified Squid Publications for the Period 1 June 1959 1 June 1961, Princeton University, Project Squid, July 1961. CRDL 285-46/TR-PR-67-P-C.
- 62,055. Stability Characteristics of a Family of Tangent Ogive Cylinder Bodies at Mach Numbers from 0.2 to 1.5, H. Gwin, D. Spring, Army Ballistic Missile Agency, Redstone Arsenal, 15 June 1961. CRDL 285-175/RG-TR-61-1.
- 62,056. An Attempt to Establish a Standard Atmospheric Density Profile Under Consideration of Its Time and Space Variations, W.H. Alfuth, and Others, Army Ballistic Missile Agency, Redstone Arsenal, 30 December 1960. CRDL 285-175/RR-TR-3-60.
- 62,057. Static Firing of Redstone Thrust Unit S/N 1008, M.G. Harsh, Jr., Army Ballistic Missile Agency, Redstone Arsenal, 10 July 1961. CRDL 285-175/RT-TR-61-10.
- 62,058. Nike-Hercules Simulated Transportation Environmental Testing of Nike-Hercules Aft Body Warhead Container, F.M. Edgington, White Sands Missile Range, DA 30-069-ORD-1082, June 1961. CRDL 285-258/TM 880.
- 62,059. Honest John Pre-Production Environmental Testing of Generator Set Gasoline Engine M-25, O.T. Linam, White Sands Missile Range, Ordnance Mission, July 1961. CRDL 285-258/TM-887.
- 62,060. Minutes of Meeting No. 53 of Joint-Army-Navy Air Force Fuze Committee Held at Ogden Air Materiel Area, Ogden, Utah on 7-8 June 1960, JANAF Fuze Committee, 7-8 June 1960. CRDL 285-268/June 7-8, 1960.

62,061. Toxic Hazards of Rocket Propellants, J.J. Oslake, S. Dorbin, R.A. Romine, Ford Motor Company, Aeronutronic, Contract N 123(61756)23304A(PMR), 30 November 1960. CRDL 285-328/TR-U-108:99.

I. SPACE RESEARCH

- 62,062. Structure and Design Considerations of the Vanguard SLV-5 Magnetic Field Satellite, J.T. Shea, National Aeronautics and Space Administration, August 1961. NASA TN D-707.
- 62,063. Lunar Trajectories, R.J. Weber, W.M. Pauson, R.R. Burley, National Aeronautics and Space Administration, August 1961. NASA TN D-866.
- 62,064. An Automatic Terminal Guidance System for Rendezvous with a Satellite, T.M. Carney, National Aeronautics and Space Administration, August 1961. NASA TN D-923.
- 62,065. Preliminary Base Pressures Obtained from the X-15 Airplane at Mach Numbers from 1.1 to 3.2, E.J. Saltzman, National Aeronautics and Space Administration, August 1961. NASA TN D-1056.
- 62,066. Ionospheric Results with Sounding Rockets and the Explorer VIII Satellite, R.E. Bourdeau, National Aeronautics and Space Administration, August 1961. NASA TN D-1079.
- 62,067. A Study of Statistical Data Adjustment and Logic Techniques as Applied to the Interplanetary Midcourse Guidance Problem, A.L. Friedlander, D.P. Harry, National Aeronautics and Space Administration, 1961. NASA TR R 113.
- 62,068. Radar Observations of Neteors According to the International Geophysical Year Program, B.L. Kashcheyev, National Aeronautics and Space Administration, August 1961. NASA TT F-68.

J. ATOMIC ENERGY

- 62,069. Numerical Results for EGCR Moderator-Element Stress Problems, L.E. Hulbert, R.F. Redmond, Battelle Memorial Institute, Atomic Energy Commission, Contract W-7405-eng-92, 3 July 1961. A.E.C. BMI-1526.
- 62,070. Stabilization of Power Distribution Throughout Fuel Lifetime with Emphasis on Reactors with Integral Superheat. Nuclear Superheat Development Program, C.J. Hansen, Combustion Engineering, Incorporated, Atomic Energy Commission, Contract AT(11-1)-795, June 1960. A.E.C. CEND-89.
- 62,071. Heat Transfer Burnout of a Surface Contacted by a Spacer Rib, S. Mirshak, R.H. Towell, E.I. du Pont de Nemours and Company, Savannah River Laboratory, Atomic Energy Commission, Contract AT(07-2)-1, April 1961. A.E.C. DP-562.

- 62,072. Radiochemical Separations Plant Study. Part II Design and Cost Estimates, W.H. Farrow, Jr., E.I. du Pont de Nemours and Company, Savannah River Laboratory, Atomic Energy Commission, Contract AT(07-2)-1, March 1961. A.E.C. DP-566.
- 62,073. Colorimetric Determination of Uranium(IV), R.S. Dorsett, E.I. du Pont de Nemours and Company, Savannah River Laboratory, Atomic Energy Commission, Contract AT(07-2)-1, May 1961. A.E.C. DP-578.
- 62,074. Friction Factors for Flow of Water in an Annulus with one Roughened Wall, W.S. Durant, E.I. du Pont de Nemours and Company, Savannah River Laboratory, Atomic Energy Commission, Contract AT(07-2)-1, June 1961. A.E.C. DP-583.
- 62,075. Heavy Water Moderated Power Reactors Progress Report for April 1961, R.R. Hood, L. Isakoff, E.I. du Pont de Nemours and Company, Savannah River Laboratory, Atomic Energy Commission, Contract AT(07-2)-1, April 1961. A.E.C. DP-615.
- 62,076. Heavy Water Moderated Power Reactors Progress Report for May 1961, E.I. du Pont/de Nemours and Company, Savannah River Laboratory, Atomic Energy Commission, Contract AT(07-2)-1, May 1961. A.E.C. DP-625.
- 62,077. Maritime Gas-Cooled Reactor Program. The Slowing-Down of Fission Neutrons in Beryllium Oxide, A.J. Goodjohn, J.C. Young, General Atomic Division, Maritime Administration, Atomic Energy Commission, Contract AT(04-3)-187, 6 June 1961. A.E.C. GA-1721.
- 62,078. 40-MW(E) Prototype High-Temperature Gas-Cooled Reactor Research and Development Program Quarterly Progress Report for the Period Ending December 31, 1960, General Dynamics Corporation, Atomic Energy Commission, Contract AT(04-3)-314, July 1961. A.E.C. GA-1982.
- 62,079. Determination of Eccentricity in X-Ray Powder Cameras, E.C. Averbukh, S.S. Tolkachev, Goodyear Atomic Corporation, Goodyear Tire and Rubber Company, Atomic Energy Commission, Contract AT(33-2)-1, 21 July 1961. A.E.C. GAT-Z-5025.
- 62,080. The Stability of Two-Phase Flow Loops and Response to Ships Motion, E.S. Beckjord, Atomic Power Equipment Department, General Electric Company, Atomic Energy Commission, Contract AT(04-3)-189, 26 September 1960. A.E.C. GEAP-3493(Rev. 1).
- 62,081. Analog Systems for the T7 Flux Trap Core, B.R. Bullard, R.M. Kendall, Atomic Power Equipment Department, General Electric Company, Atomic Energy Commission, Contract AT(04-3)-189, 7 July 1960. A.E.C. GEAP-3575.
- 62,082. Absorber Burnup Experiment Interim Report. Technical Report, J.L. Russell, Jr., and Others, Vallecitos Atomic Laboratory, General Electric Company, Atomic Energy Commission, Contract AT(04-3)-189, 20 January 1961. A.E.C. GEAP-3617.

- 62,083. Zero-Flow Shutdown Cooling Test for Bonus-Type Superheater Elements. Terminal Report Under Activity No. 50-00-00, Heat-Transfer Tests Simulating Loss of Coolant, General Nuclear Engineering Corporation, Atomic Energy Commission, Contract AT(11-1)-795, 21 November 1960. A.E.C. GNEC-144.
- 62,084. Physics Research Quarterly Report October, November, December, 1960, Staff, Hanford Atomic Products Operation, General Electric, Contract AT(45-1)-1350, 20 January 1961. A.E.C. HW-68389.
- 62,085. Plutonium Inhalation Studies. IV. Mortality in Dogs After Inhalation of Pu²³⁹O₂, W.J. Bair, D.H. Willard, Hanford Atomic Products Operation, General Electric, Contract AT(45-1)-1350, March 1961. A.E.C. HW-68803.
- 62,086. Xenon Instability in Graphite Reactors, G.C. Fullmer, Hanford Atomic Products Operation, General Electric, Contract AT(45-1)-1350, February 1961. A.E.C. HW-69084.
- 62,087. Hanford Biology Research Annual Report for 1960, Staff, Hanford Atomic Products Operation, General Electric Company, Atomic Energy Commission, Contract AT(45-1)-1350, 10 January 1961. A.E.C. HW-69500.
- 62,088. Nuclear Incident at the Idaho Chemical Processing Plant. Report of the Investigating Committee, R.C. Paulus, and Others, Phillips Petroleum Company, Atomic Energy Commission, Idaho Operations Office, Contract AT(10-1)-205, 25 January 1961. A.E.C. IDO-10036.
- 62,089. Research and Development Studies on Waste Storage Process, M.H. Ortner, and Others, Phillips Petroleum Company, National Reactor Testing Station, Atomic Energy Commission, Contract AT(10~1)-205, Idaho Operations Office, 19 May 1961. A.E.C. IDO-14504.
- 62,090. Pneumatic Atomizing Nozzles in Fluidized Bed Calcining. I. Calibration Tests, B.M. Legler, J.I. Stevens, National Reactor Testing Station, Phillips Petroleum Company, Idaho Operations Office, Contract AT(10-1)-205, 12 May 1961. A.E.C. IDO-14548.
- 62,091. Hazards Evaluation of Proposed Site for ETR II, D.R. deBoisblanc, and Others, Idaho Operations Office, National Reactor Testing Station, Phillips Petroleum Company, Contract AT(10-1)-205, 18 August 1960. A.E.C. ID0-16623.
- 62,092. The Dependence of Reactor Behavior on the Self-Shutdown Mode, S.G. Forbes, Idaho Operations Office, Phillips Petroleum Company, National Reactor Testing Station, Contract AT(10-1)-205, 25 April 1961. A.E.C. ID0-16635.
- 62,093. ETR Gamma Heat Generation Measurements for Cycles 27, 33, and 34, L.D. Weber, C.H. Hogg, Idaho Operations Office, Phillips Petroleum Company, National Reactor Testing Station, Contract AT(10-1)-205, 31 May 1961. A.E.C. IDO-16653.

1'

- 62,094. Thermal Stability of Gadolinium Nitrate Solution at High Temperature, J.F. Koenig, Phillips Petroleum Company, National Reactor Testing Station, Idaho Operations Office, Contract AT(10-1)-205, 19 May 1961. A.E.C. IDO-16674.
- 62,095. Quarterly Technical Report SPERT Project July, August, September 1960, F. Schroeder, and Others, Phillips Petroleum Company, Idaho Operations Office, National Reactor Testing Station, Atomic Energy Commission, Contract AT(10-1)-205, 10 May 1961. A.E.C. IDO-16677.
- 62,096. Quarterly Technical Report SPERT Project October, November, December 1960, F. Schroeder, and Others, Phillips Petroleum Company, National Reactor Testing Station, Atomic Energy Commission, Idaho Operations Office, Contract AT(10-1)-205, 1 June 1961. A.E.C. IDO-16687.
- 62,097. Quarterly Technical Report SPERT Project January, February, March, 1961, F. Schroeder, and Others, Phillips Petroleum Company, National Reactor Testing Station, Atomic Energy Commission, Idaho Operations Office, Contract AT(10-1)-205, 30 June 1961. A.E.C. IDO-16693.
- 62,098. On the Different Crystallographic Phases of Solid Helium, N. Bernardes, Ames Laboratory, Iowa State University, Atomic Energy Commission, Contract W-7405-eng-82, 3 April 1961. A.E.C. IS-285.
- 62,099. Reactor Technology Report No. 16 Metallurgy, General Electric, Knolls Atomic Power Laboratory, Atomic Energy Commission, Contract W-31-109-eng-52, July 1961. A.E.C. KAPL-2000-13.
- 62,100. Reactor Technology Report No. 17 Engineering, General Electric Company, Knolls Atomic Power Laboratory, Atomic Energy Commission, Contract W-31-109-eng-52, July 1961. A.E.C. KAPL-2000-14.
- 62,101. Thorium Cross Sections and Their Temperature Dependence, J.J. Devaney, and Others, Los Alamos Scientific Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-36, 13 July 1961. A.E.C. LA-2525.
- 62,102. Radiation Relaxation Times at High Temperatures, D.H. Sampson, Los Alamos Scientific Laboratory, University of California, Atomic Energy Commission, 19 July 1961. A.E.C. LA-2533.
- 62,103. Determination of Impurities in Helium, G.E. Meadows, and Others, Los Alamos Scientific Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-36, 16 June 1961. A.E.C. LA-2540.
- 62,104. Bibliography on Self-Diffusion of Pure Metals in the Solid State 1950-1960, R.L. Andelin, L.E. Godfrey, Los Alamos Scientific Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-26, 26 July 1961. A.E.C. LAMS-2562.

- 62,105. Neutron Tissue Dose Rate Survey for the Godiva II Critical Assembly, M.J. Engelke, and Others, Los Alamos Scientific Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-36, 4 August 1961. A.E.C. LA-2569.
- 62,106. Pressure Balance in the Toroidal Orthogonal Pinch, B.R. Suydam, Los Alamos Scientific Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-36, 24 July 1961. A.E.C. LAMS-2571.
- 62,107. A Time-Resolved Probe Method, F.F. Chen, Plasma Physics Laboratory, Princeton University, Atomic Energy Commission, Contract AT(30-1)-1238, 20 February 1961. A.E.C. MATT-62.
- 62,108. A Safety Device for Dispensing Laboratory Solvents, A.J. Cook, W.M. Kelley, Mallinckrodt Chemical Works, Uranium Division, Contract W-14-108-eng-8, 30 June 1961. A.E.C. MCW-1458.
- 62,109. Mound Laboratory Monthly Progress Report for April, 1961, J.F. Eichelberger, Monsanto Research Corporation, Mound Laboratory, Atomic Energy Commission, Contract WT-33-1-GEN-53, 2 August 1961. A.E.C. MIM-1114.
- 62,110. Law of Corresponding States for Fused Salts, H. Reiss, and Others, Atomics International, North American Aviation, Incorporated, Atomic Energy Commission, Contract AT(11-1)-GEN-8, 31 May 1961. A.E.C. NAA-SR-6131.
- 62,111. Polarography of Bismuth in Molten Bismuth (III) Chloride, L.E. Topol, R.A. Osteryoung, Atomics International, North American Aviation, Incorporated, Atomic Energy Commission, Contract AT(11-1)-GEN-8, 30 July 1961. A.E.C. NAA-SR-6253.
- 62,112. Thermal Diffusion in Interstitial Solid Solutions, D.O. Raleigh, A.W. Sommer, Atomics International, North American Aviation, Incorporated, Atomic Energy Commission, Contract AT(11-1)-GEN-8, 30 July 1961. A.E.C. NAA-SR-6382.
- 62,113. Theory of Metal Surface Tensions. An Ionic-Salt Model for Liquid Metals, S.W. Mayer, Atomics International, North American Aviation, Incorporated, Atomic Energy Commission, Contract AT(11-1)-GEN-8, 30 June 1961. A.E.C. NAA-SR-6385.
- 62,114. Preliminary Design of the ORNL Fast Burst Reactor, G. Breidenbach, and Others, Nuclear Development Corporation of America, Oak Ridge National Laboratory, Contract 93X-81334-C, 30 July 1960. A.E.C. NDA-2136-1. On File in NDL Only.
- 62,115. An Investigation of the Mineralogy and Petrography of Uranium-Bearing Shales. Analyses of Shale Samples, T.F. Bates, and Others, College of Mineral Industries, Pennsylvania State University, Atomic Energy Commission, Contract AT(30-1)-1202, 25 August 1958. A.E.C. NYO-7909. On File in NDL Only.

- 62,116. Iteration Methods for Non-Linear Problems, S. Schechter, Institute of Mathematical Sciences, New York University, Atomic Energy Commission, Contract AT(30-1)-1480, 1 May 1961. A.E.C. NYO-9497.
- 62,117. Applications of Ultrasonic Energy Ultrasonic Dissolution of Alumine and of High-Fired Thoria Pellets, W.B. Tarpley, R.S. Winchester, Aeroprojects Incorporated, Atomic Energy Commission, Contract AT(30-1)-1836, April 1961. AEC NYO-9580.
- 62,118. The Development of a Direct Coupled, Transistorized, Sub-Millimicro-ampere Current Amplifier, F.T. May, Oak Ridge National Laboratory, Union Carbide Corporation, Atomic Energy Commission, Contract W-7405-eng-26, 11 August 1961. A.E.C. ORNL-3098.
- 62,119. Interdiffusion of Helium and Argon in Speer Moderator No. 1 Graphite. (A Terminal Report on Large-Pore Graphites Experimental Phase), J. Truitt, Oak Ridge National Laboratory, Union Carbide Corporation, Atomic Energy Commission, Contract W-7405-eng-26, 26 June 1961. A.E.C. ORNL-3117.
- 62,120. Status Report No. 1 on Clinch River Study, R.J. Morton, Oak Ridge National Laboratory, Union Carbide Corporation, Atomic Energy Commission, Contract W-7405-eng-26, 4 August 1961. A.E.C. ORNL-3119.
- 62,121. Molten-Salt Reactor Program Progress Report for Period from August 1, 1960 to February 28, 1961, R.B. Briggs, Oak Ridge National Laboratory, Union Carbide Corporation, Atomic Emergy Commission, Contract W-7405-eng-26, 27 June 1961. A.E.C. ORNL-3122.
- 62,122. Barytes Concrete for Radiation Shielding: Mix Criteria and Attenuation Characteristics, W.J. Grantham, Jr., Oak Ridge National Laboratory, Union Carbide Corporation, Atomic Energy Commission, Contract W-7405-eng-26, 25 July 1961. A.E.C. ORNL-3130.
- 62,123. Fuel Cycle Development: Semiannual Progress Report for Period Ending March 31, 1961, D.E. Ferguson, Oak Ridge National Laboratory, Union Carbide Corporation, Atomic Energy Commission, Contract W-7405-eng-26, 27 July 1961. AEC ORNL-3142.
- 62,124. Structure and Use of ALGOL 60, H. Bottenbruch, Oak Ridge National Laboratory, Union Carbide Corporation, Atomic Energy Commission, Contract W-7405-eng-26, 26 July 1961. A.E.C. ORNL-3148.
- 62,125. Applied Health Physics Annual Report for 1960, K.Z. Morgan, and Others, Oak Ridge National Laboratory, Union Carbide Corporation, Atomic Energy Commission, Contract W-7405-eng-26, 27 July 1961. A.E.C. ORNL-3159.
- 62,126. Stability of Plasmas Against Electrostatic Perturbations, T.K. Fowler, Oak Ridge National Laboratory, Union Carbide Corporation, Atomic Energy Commission, Contract W-7405-eng-26, 10 August 1961. A.E.C. ORNL-3162.

- 62,127. Proceedings of the Upper Atmosphere Sampling Symposium-Part 1-Held at Sandia Laboratory, Albuquerque, New Mexico April 11-13, 1961, J.D. Shreve, Jr., Sandia Corporation, Atomic Energy Commission, July 1961. A.E.C. SCR-420(Pt. 1).
- 62,128. Reactor Containment Design Study, R.A. Johnson, I. Nelson, Armour Research Foundation, Sergeant and Lundy, Engineers, Atomic Energy Commission, Contract AT(11-1)-938, 18 May 1961. A.E.C. SL-1868.
- 62,129. Bibliographies of Interest to the Atomic Energy Program, J.M. Jacobs, and Others, Office of Technical Information Ext., Atomic Energy Commission, January 1961. A.E.C. TID-3043(Rev.1) (Suppl. 2).
- 62,130. Radioisotopes in Medicine and Human Physiology. A Selected List of References, J.A. McCormick, Office of Technical Information, Ext., Atomic Energy Commission, March 1960. A.E.C. TID-3077.
- 62,131. Reactor Safety. A Literature Search, R.J. Smith, Office of Technical Information, Atomic Energy Commission, July 1961. A.E.C. TID-3525 (Rev.3).
- 62,132. Radiation Protection Standards. A Literature Search, W.E. Bost, Office of Technical Information, Atomic Energy Commission, June 1961. A.E.C. TID-3551 (Rev. 1).
- 62,133. Molten Salts. Selected References, W.E. Bost, Office of Technical Information, Atomic Energy Commission, June 1961. A.E.C. TID-3564.
- 62,134. Informal Listing of Bibliographies of Atomic Energy Literature. Bibliographies Issued or in Progress During the Period, April-May 1961, Office of Technical Information Ext., Atomic Energy Commission, April-May 1961. A.E.C. TID-3705.
- 62,135. Translation Title List and Cross Reference Guide, F.E. Stratton, Office of Technical Information Extension, Atomic Energy Commission, June 1961. A.E.C. TID-4025 (1st Rev) (Pt. I). On File in NDL Only.
- 62,136. Supplemental Insert Sheets for Engineering Materials List, Atomic Energy Commission, June 1961. A.E.C. TID-4100(1st Rev., Suppl. 12). On File in NDL Only.
- 62,137. Proceedings of the University Reactor Conference Held at Gatlinburg, Tennessee August 17-19, 1960, Oak Ridge National Laboratory, Oak Ridge Institute of Nuclear Studies, Atomic Energy Commission, June 1961. A.E.C. TID-7608.
- 62,138. Report of the Second Working Meeting on Fixation of Radioactivity in Stable, Solid Media at Idaho Falls, Idaho September 27-29, 1960. Book 1, J.M. Morgan, Jr., and Others, National Reactor Testing Station, Johns Hopkins University, Contract AT(30-1)-1477, February 1961. A.E.C. TID-7613(Bk1).

- 62,139. Report of the Second Working Committee on Fixation of Radioactivity in Stable, Solid Media at Idaho Falls, Idaho September 27-29, 1960. AEC TID 7613 (Bk2).
- 62,140. Visit of U.S. Controlled Thermonuclear Team to USSR, July 1960, P.R. Bell, and Others, Office of Technical Information, Atomic Energy Commission, May 1961. A.E.C. TID-11746.
- 62,141. Nuclear Decay Scheme Studies on Short-Lived Nuclides from the (n,γ) and (n, Fission) Reactions, M.A. Wahlgren, University of Michigan, Contract AT(11-1)-70, Atomic Energy Commission, February 1961. A.E.C. TID-11807.
- 62,142. Atmospheric Radioactivity and Fallout Research, Division of Biology and Medicine, Atomic Energy Commission, Office of Technical Information, April 1961. A.E.C. TID-12616.
- 62,143. The Magnetic Properties and Structure of Matter, Y.G. Dorfman, Office of Technical Information, Atomic Energy Commission, June 1961. A.E.C. tr-4507.
- 62,144. AEC Translation List #57 Dated July 21, 1961, Office of Technical Information Ext., Atomic Energy Commission, 21 July 1961. A.E.C. Translation List #57. On File in NDL Only.
- 62,145. Measurement of Liver Blood Flow in Animals with Colloidal Radiogold (Au¹⁹⁸), O.M. Meredith, and Others, University of California at Los Angeles, School of Medicine, Contract AT(O4-1)-GEN-12, Atomic Energy Commission, 12 June 1961. A.E.C. UCLA-477.
- 62,146. Recent Uses of a Total Body Counter Facility in Metabolic Research and Clinical Diagnosis with Radionuclides, N.S. MacDonald, University of California at Los Angeles, School of Medicine, Contract AT(04-1)-GEN-12, Atomic Energy Commission, 16 June 1961. A.E.C. UCLA-478.
- 62,147. The Nuclear Ramjet Propulsion System, T.C. Merkle, Lawrence Radiation Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-48, 15 May 1961. A.E.C. UCRL-5625 (Rev).
- 62,148. Stage Optimization of the General Multistage Rocket, R.H. Fox, Lawrence Radiation Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-48, 16 February 1961. A.E.C. UCRL-6343.
- 62,149. Notes on Growing Single Crystals: The Preparation of Single Crystals of Some of the Transition Metal Fluorides, E. Catalano, G.S. Stratton, University of California, Lawrence Radiation Laboratory, Atomic Energy Commission, Contract W-7405-eng-48, 7 April 1961. A.E.C. UCRL-6370.
- 62,150. Observations on the Response of a Lithium-Drifted Detector to Protons, J. Benveniste, and Others, University of California, Lawrence Radiation Laboratory, Atomic Energy Commission, Contract W-7405-eng-48, 18 April 1961. A.E.C. UCRL-6441.

- 62,151. Thermodynamic Data for Water, J.C. Howard, University of California, Lawrence Radiation Laboratory, Atomic Energy Commission, Contract W-7405-eng-48, 18 April 1961. A.E.C. UCRL-6455-T.
- 62,152. Oscillating Vertical Magnetic Dipole Avove a Conducting Half-Space, J.P. Wesley, Lawrence Radiation Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-48, 2 April 1961. A.E.C. UCRL-6467.
- 62,153. Preliminary Studies on Beam Programming in a Cyclotron, H.A. Willax, University of California, Lawrence Radiation Laboratory, Atomic Energy Commission, Contract W-7405-eng-48, 30 September 1960. A.E.C. UCRL-9416.
- 62,154. A Theoretical Comparison of 4 mFastneutron Spectrometers, C. Mo Kim, Lawrence Radiation Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-48, November 1960. A.E.C. UCRL-9504.
- 62,155. Bio-Organic Chemistry Quarterly Report September Through November 1960, University of California, Lawrence Radiation Laboratory, Atomic Energy Commission, Contract W-7405-eng-48, 31 January 1961. A.E.C. UCRL-9519.
- 62,156. Bevatron Operation and Development XXVII August, September, October 1960, W.D. Hartsough, G.R. Lambertson, University of California, Lawrence Radiation Laboratory, Atomic Energy Commission, Contract W-7405-eng-48, 2 March 1961. A.E.C. UCRL-9546.
- 62,157. Generation of Three-Body Production and Decay Processes Following Phase-Space Distribution by Monte Carlo Method, J.A. Kadyk, Lawrence Radiation Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-48, 10 April 1961. A.E.C. UCRL-9614.
- 62,158. Heavy-Ion Elastic Scattering, J. Alster, Lawrence Radiation Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-48, 17 April 1961. A.E.C. UCRL-9650.
- 62,159. Two-NucleonTransfer Reactions in the Light Elements, J. Cerny III, Lawrence Radiation Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-48, 23 May 1961. A.E.C. UCRL-9714.
- 62,160. Production of Pion Pairs by a Photon in the Coulomb Field of a Nucleus, Y. Kim, Lawrence Radiation Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-48, 5 June 1961. A.E.C. UCRL-9734.
- 62,161. Development of a 100-ma Proton Source and Lens System for the Bevatron Mark II Injector, R.W. Allison, Jr., and Others, Lawrence Radiation Laboratory, University of California, Atomic Energy Commission, Contract W-7405-eng-48, 12 June 1961. A.E.C. UCRL-9743.
- 62,162. The Effect of Inhaled Radon on the Survival, Body Weight and Hemogram of the Mouse Following Single Exposures, D.A. Morken, University of Rochester, Atomic Energy Commission, Contract W-7401-eng-49, 14 July 1961. A.E.C. UR-593.

- 62,163. A Unit for Exposure of Animals to Radioactive Mercury Vapor, A.D. Hayes, A. Rothstein, University of Rochester, Atomic Energy Commission, Contract W-7401-eng-49, 5 June 1961. A.E.C. UR-594.
- 62,164. Late Manifestations of Ionizing Radiation in the Dog, S.M. Michaelson, and Others, University of Rochester, Atomic Energy Commission, Contract W-7401-eng-49, 20 July 1961. A.E.C. UR-595.
- 62,165. Summary of Calculational and Experimental Physics Results for Shipping-port PWR-1 Seed 1, R.P. Christman, D.H. Jones, Bettis Atomic Power Laboratory, Westinghouse Electric Corporation, Atomic Energy Commission, Contract AT-11-1-GEN-14, January 1961. A.E.C. WAPD-234.
- 62,166. The Behavior of Electrolytic Solutions at Elevated Temperatures as Derived from Conductance Measurements, J.M. Wright, and Others, Bettis Atomic Power Laboratory, Westinghouse Electric Corporation, Atomic Energy Commission, Contract AT-11-1-GEN-14, June 1961. A.E.C. WAPD-TM-204.
- 62,167. Automation of Leco Carbon Analyzers, J.J. Henry, Union Carbide Nuclear Company, Atomic Energy Commission, Contract W-7405-eng-26, 5 June 1961. A.E.C. Y-1356.
- 62,168. Development and Application of the Oxidometer, J.B. Mankin, Jr., Union Carbide Nuclear Company, Atomic Energy Commission, Contract W-7405-eng-26, 14 July 1961. A.E.C. Y-1338.
- 62,169. A Geometry Correction for Plane Source Age Measurements in Hydrogenous Media, E.F. Bennett, J. Haugsnes, Argonne National Laboratory, University of Chicago, Contract W-31-109-eng-38, April 1961. ANL-6242.
- 62,170. Symposium on Physics and Non-Destructive Testing Held at Argonne National Laboratory October 4 and 5, 1960, Argonne National Laboratory, University of Chicago, Contract W-31-109-eng-38, 4-5 October 1960. ANL-6346.
- 62,171. Purification of Fluorine by Distillation, L. Stein, and Others, Argonne National Laboratory, University of Chicago, Contract W-31-109-eng-38, June 1961. ANL-6364.
- 62,172. Flux and Temperature Peaking Effects Resulting from the Use of Seamed Fuel Tubes in CP-5, D.P. Moon, Argonne National Laboratory, University of Chicago, Contract W-31-k09-eng-38, May 1961. ANL-6365.
- 62,173. Radiological Survey of the Health Division Diagnositic X-Ray Facility, A.G. Januska, W.H. Smith, Argonne National Laboratory, University of Chicago, Contract W-31-109-eng-38, May 1961. ANL-6367.
- 62,174. Reactor Development Program Progress Report for May 1961, N. Hilberry, and Others, Argonne National Laboratory, University of Chicago, Contract W-31-109-eng-38, May 1961. ANL-6374.

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62,175. Physics Division Summary Report for June 1961, M. Hamermesh, Argonne National Laboratory, University of Chicago, Contract W-31-109-eng-38, June 1961. ANL-6376.